

Applicants: Jason D. Bannan and John E. Zabriskie  
U.S. Serial No.: 09/335,581  
Filed: June 18, 1999  
Page 3

Listing of Claims:

50. (Currently Amended) A non-toxic, purified peptide consisting essentially of consecutive amino acids having an amino acid sequence set forth in  $X_{25}X_{26}YGGX_1TX_2X_3X_4X_5N$  (SEQ ID NO:28) wherein  $X_1$  is I or V;  $X_2$  is L, E, K, P, or N;  $X_3$  is H, A, or no amino acid;  $X_4$  is D, N, E, Q, or H;  $X_5$  is N, G, S, or R;  $X_{25}$  is C, Y, or no amino acid; and  $X_{26}$  is M, T, L, I, or no amino acid.

~~selected from the group consisting of~~

~~CMYGGVTLHDGN (SEQUENCE ID NO: 32),~~

~~CMYGGVTLHNGN (SEQUENCE ID NO: 33),~~

~~CMYGGVTLHEGN (SEQUENCE ID NO: 34),~~

~~CMYGGVTLHQGN (SEQUENCE ID NO: 35),~~

~~CMYGGVTLHHGN (SEQUENCE ID NO: 36),~~

~~CMYGGVTEHDGN (SEQUENCE ID NO: 37),~~

~~CMYGGVTEHNGN (SEQUENCE ID NO: 38),~~

~~CMYGGVTEHQGN (SEQUENCE ID NO: 39),~~

~~CMYGGVTEHHGN (SEQUENCE ID NO: 40),~~

~~CMYGGVTKHDGN (SEQUENCE ID NO: 41),~~

~~CMYGGVTKHNGN (SEQUENCE ID NO: 42),~~

~~CMYGGVTKHEGN (SEQUENCE ID NO: 43),~~

~~CMYGGVTKHQGN (SEQUENCE ID NO: 44),~~

~~CMYGGVTKHHGN (SEQUENCE ID NO: 45),~~

~~CMYGGVTPHDGN (SEQUENCE ID NO: 46),~~

~~CMYGGVTPHNGN (SEQUENCE ID NO: 47),~~

~~CMYGGVTPHEGN (SEQUENCE ID NO: 48),~~

~~CMYGGVTPHQGN (SEQUENCE ID NO: 49),~~

~~CMYGGVTPHHGN (SEQUENCE ID NO: 50),~~

~~CMYGGVTNHHDGN (SEQUENCE ID NO: 51),~~

~~CMYGGVTNHNGN (SEQUENCE ID NO: 52),~~

~~CMYGGVTNHEGN (SEQUENCE ID NO: 53),~~

~~CMYGGVTNHQGN (SEQUENCE ID NO: 54),~~

Applicants: Jason D. Bannan and John E. Zabriskie  
U.S. Serial No.: 09/335,581  
Filed: June 18, 1999  
Page 4

~~CMYGGVTNHHGN (SEQUENCE ID NO: 55),~~  
~~CMYGGITLHDGN (SEQUENCE ID NO: 56),~~  
~~CMYGGITLHNGN (SEQUENCE ID NO: 57),~~  
~~CMYGGITLHEGN (SEQUENCE ID NO: 58),~~  
~~CMYGGITLHQGN (SEQUENCE ID NO: 59),~~  
~~CMYGGITLHHGN (SEQUENCE ID NO: 60),~~  
~~CMYGGITEHDGN (SEQUENCE ID NO: 61),~~  
~~CMYGGITEHNGN (SEQUENCE ID NO: 62),~~  
~~CMYGGITEHEGN (SEQUENCE ID NO: 63),~~  
~~CMYGGITEHQGN (SEQUENCE ID NO: 64),~~  
~~CMYGGITEHHGN (SEQUENCE ID NO: 65),~~  
~~CMYGGITKHDGN (SEQUENCE ID NO: 66),~~  
~~CMYGGITKHGN (SEQUENCE ID NO: 67),~~  
~~CMYGGITKHEGN (SEQUENCE ID NO: 68),~~  
~~CMYGGITKHGGN (SEQUENCE ID NO: 69),~~  
~~CMYGGITKHHGN (SEQUENCE ID NO: 70),~~  
~~CMYGGITPHDGN (SEQUENCE ID NO: 71),~~  
~~CMYGGITPHNGN (SEQUENCE ID NO: 72),~~  
~~CMYGGITPHEGN (SEQUENCE ID NO: 73),~~  
~~CMYGGITPHQGN (SEQUENCE ID NO: 74),~~  
~~CMYGGITPHHGN (SEQUENCE ID NO: 75),~~  
~~CMYGGITNHHDGN (SEQUENCE ID NO: 76),~~  
~~CMYGGITNHNGN (SEQUENCE ID NO: 77),~~  
~~CMYGGITNHEGN (SEQUENCE ID NO: 78),~~  
~~CMYGGITNHQGN (SEQUENCE ID NO: 79), and~~  
~~CMYGGITNHHGN (SEQUENCE ID NO: 80), with the proviso that~~  
~~the peptide is not Staphylococcal enterotoxin B (SEB) or~~  
~~Staphylococcal enterotoxin C (SEC) or other native toxin.~~

51-55. (Canceled)

56. (New) The peptide of claim 1, wherein  $X_1$  is V.

Applicants: Jason D. Bannan and John E. Zabriskie  
U.S. Serial No.: 09/335,581  
Filed: June 18, 1999  
Page 5

57. (New) The peptide of claim 1, wherein  $X_2$  is L.
58. (New) The peptide of claim 1, wherein  $X_3$  is H.
59. (New) The peptide of claim 1, wherein  $X_4$  is E.
60. (New) The peptide of claim 1, wherein  $X_5$  is G.
61. (New) The peptide of claim 1, wherein  $X_{25}$  is C.
62. (New) The peptide of claim 1, wherein  $X_{26}$  is M.
63. (New) The peptide of claim 1, wherein, wherein  $X_1$  is V,  $X_2$  is L,  $X_3$  is H,  $X_4$  is E,  $X_5$  is G,  $X_{25}$  is C, and  $X_{26}$  is M.